Index to Feature Material

Vol. 43, Jan-June 1956

Covers feature articles, New Materials Previews, MATERIALS & METHODS Manuals, Engineering File Facts

ADHESIVES (see WELDING)

ALUMINUM AND ITS ALLOYS
- Aluminized Coating, New—Mar, p 104
- Aluminum Alloy Screw Machine Parts—May, p 122
- Aluminum Chain—June, p 124
- Aluminum Powder Metallurgy Products—Apr, p 106
- Ceramic Mold Castings—Jan, p 100
- Chromium Plate for Aluminum and Titanium—May, p 120
- Forgings in Aircraft Save Weight, Improve Design—Mar, p 106
- Porcelain Enamel, What's New in —Jan, p 92
- Self-Insulated Aluminum Strip and Wire (Preview)—May, p 167
- Wrought Aluminum Alloys (M&M Manual)—Jan, p 109

BRAZING (see WELDING)

CARBON, GRAPHITE (see NONMETALLIC MATERIALS)

CASTINGS, CASTING
- Bronze Shapes, Continuous Cast—Feb, p 108
- Ceramic Mold Steel Castings—Jan, p 100
- Fabricated Metal Parts—Design and Selection Factors (M&M Manual)—Feb, p 121
- Gray Iron, Properties of (File Fact)—Mar, p 141
- Magnesium Alloy Castings, New Nondestructive Test for—Jan, p 98
- Malleable Iron Castings, Redesigning for—June, p 140
- Metal Powder Slip Castings—May, p 132
- Pearlitic Malleable Iron, Thicker Sections Feasible in New (Preview)—Apr, p 159
- Rubber-Modified Alkyd Sealers for Castings—Apr, p 130

CERAMICS, CERMETS
- Boride Parts Resist Molten Zinc—June, p 132
- Boron Nitride—Jan, p 88
- Inorganic Block Insulation (Preview)—Apr, p 163
- Slip Castings, Metal Powder—May, p 132

COATINGS, FINISHES
- Aluminized Coating, New—Mar, p 104
- Chromium Plate for Aluminum and Titanium, New—May, p 120
- Flame-Plated Coatings Where Service Is Severe—Feb, p 100
- Porcelain Enamel, What's New in —Jan, p 92
- Rubber-Modified Alkyd Sealers for Castings—Apr, p 130
- Titanate Coatings, New—June, p 120
- Wrought Aluminum Alloys (M&M Manual)—Jan, p 109

COPPER, BRASS, BRONZE
- Bronze Shapes Continuous Cast—Feb, p 108
- Ceramic Mold Castings—Jan, p 100
- Metal Powder Parts, Large—Apr, p 112

ENGINEERING FILE FACTS
- Brazing, Nomograph Selects Size of Wire for—Jan, p 129
- Forgeable Metals and Forging Design—June, p 161
- Gray Iron, Properties of—Mar, p 141
- Mechanical Felts, Applications and Properties of—Apr, p 155
- Nylon Plastics, Properties of—May, p 161
- Steel Heat Treating Temperatures and Hardness after Treatment—Jan, p 127
- Titanium and Titanium Alloys, Nomographs for Calculating Hot-Air Contamination of Commercial—Feb, p 139
- Tool Steels — Identification and Type Classification—May, p 163

EXTRUSIONS, EXTRUDING
- Fabricated Metal Parts—Design and Selection Factors (M&M Manual)—Feb, p 121

FABRICS, FIBERS
- Asbestos-Reinforced Low Pressure Laminates—Feb, p 103
- Bonded Fabrics—Feb, p 116
- Floor Covering Materials for Heavy Service—Jan, p 85
- Glass Finish for Reinforced Plastics, A Universal—Jan, p 106
- Mechanical Felts, Applications and Properties of (File Fact)—Apr, p 155
- Pressure Sensitive Tapes (M&M Manual)—Mar, p 123

FELT (see FABRICS, FIBERS)

FORGINGS, FORGING
- Aluminum Alloys, Wrought (M&M Manual)—Jan, p 109
- Fabricated Metal Parts—Design and Selection Factors (M&M Manual)— Feb, p 121
- Forgeable Metals and Forging Design (File Fact)—June, p 161
- Forgings in Aircraft Save Weight, Improve Design—Mar, p 107
- Leaded Forging Steels—Jan, p 104

FORMED SHAPES, FORMING
- Aluminum Alloys, Wrought (M&M Manual)—Jan, p 109
- Fabricated Metal Parts—Design and Selection Factors (M&M Manual)—Feb, p 121

GENERAL
- Better Materials Selection, Improve Quality, Reduce Costs through (Special Report)—May, p 135
- Fabricated Metal Parts—Design and Selection Factors (M&M Manual)—Feb, p 121
- Statistical Quality Control, How to Use for Materials Selection—Apr, p 120

GLASS (see NONMETALLIC MATERIALS)

HEAT TREATMENT, HEATING
- Aluminum Alloys, Wrought (M&M Manual)—Jan, p 109
- Steel Heat Treating Temperatures and Hardness after Treatment (File Fact)—Jan, p 127
- Titanium, How to Heat Treat—June, p 126
- Titanium and Titanium Alloys, Nomographs for Calculating Hot-Air Contamination of Commercial (File Fact)—Feb, p 139

IRONS
- Gray Iron, Properties of (File Fact)—Mar, p 141
- Malleable Iron Castings, Redesigning for—June, p 140
- Pearlitic Malleable Iron, Thicker Sections Feasible in New (Preview)—Apr, p 159
- Porcelain Enamel, What's New in —Jan, p 92

MACHINED PARTS, MACHINING
- Aluminum Alloy Screw Machine Parts—May, p 122
- Aluminum Alloys, Wrought (M&M Manual)—Jan, p 109
- Fabricated Metal Parts—Design and Selection Factors (M&M Manual)—Feb, p 121

MAGNESIUM AND ITS ALLOYS
- Magnesium Alloy Castings, New Nondestructive Test for—Jan, p 98
- Magnesium-Thorium Sheet—Mar, p 114

MANUALS, MATERIALS & METHODS
- Fabricated Metal Parts—Design and Selection Factors—Feb, p 121
- Foam Plastics—June, p 143
- Pressure Sensitive Tapes—Mar, p 123
- Stainless Steels, The New—Apr, p 137
- Wrought Aluminum Alloys—Jan, p 109

NONFERROUS METALS, (see also ALUMINUM, COPPER, MAGNESIUM, TITANIUM)
- Ceramic Mold Castings—Jan, p 100
- Flame-Plated Coatings Where Service Is Severe—Feb, p 100
- Forgeable Metals and Forging Design (File Fact)—June, p 161
- Metal Powder Slip Castings—May, p 132
- Scarce Metals, Present and Future Uses of (cesium, gallium, germanium, hafnium, indium, iridium, osmium, palladium, platinum, rhenium, rhodium, ruthenium, tellurium, thallium, thorium)—Jan, p 80

NONMETALLIC MATERIALS (see also CERAMICS, CERMETS, FABRICS, FIBERS, PLASTICS)
- Floor Covering Materials for Heavy Service—Jan, p 85
- Graphite Performs at High Temperatures, How—May, p 126
- Modified Woods—Old and New—Mar, p 110
- Photosensitive Glass, Chemical Machining of—June, p 134
- Pressure Sensitive Tapes (M&M Manual)—Mar, p 123
- Silicone Rubbers Have High Tensile and Tear Strengths (Preview)—Mar, p 149

PLASTICS
- Asbestos-Reinforced Low Pressure Laminates—Feb, p 103
- Bonded Fabrics—Feb, p 116
- Casting Resins Insulate and Protect Electronic Components—Feb, p 90
- Design Data for Plastics, Devel-

continued

oping—Apr, p 132
Floor Covering Materials for Heavy Service—Jan, p 85
Foam Plastics (M&M Manual)—June, p 143
Glass Finish for Reinforced Plastics, A Universal—Jan, p 106
Nylon Plastics, Properties of (File Fact)—May, p 161
Plastics Keep a 50-Ton Tank Afloat—May, p 130
Plastics, Progress in—June, p 112
Polyamide Resins, Versatile (Preview)—Mar, p 150
Polyethylenes Fill the Gap, Two New (Preview)—May, p 165
Polymethylstyrene and Methylstyrene - Acrylonitrile Copolymer (Preview)—Mar, p 145
Pressure Sensitive Tapes (M&M Manual)—Mar, p 123
Teflon and Nylon Bearing Materials—Mar, p 100
Teflon Improved by New Treatment, Bonding Qualities of—Apr, p 118

POWDER METAL PARTS
Aluminum Powder Metallurgy Products—Apr, p 106
Fabricated Metal Parts—Design and Selection Factors (M&M Manual)—Feb, p 121
Large Metal Powder Parts—Apr, p 112

RUBBER (see NONMETALLIC MATERIALS)

STEELS
Ceramic Mold Steel Castings—Jan, p 100
Forgeable Metals and Forging Design (File Fact)—June, p 161
Forgings in Aircraft Save Weight, Improve Design—Mar, p 106
Leaded Forging Steels—Jan, p 104
Metal Powder Slip Castings—May, p 132
Metal Powder Parts, Large—Apr, p 112
Porcelain Enamel, What's New in—Jan, p 92
Stainless Steels, Rare Earth—Feb, p 96
Stainless Steels, The New (M&M Manual)—Apr, p 137
Stainless vs Titanium for High Speed Aircraft—Apr, p 124
Steel Heat Treating Temperatures and Hardness after Treatment (File Fact)—Jan, p 127
Tool Steels—Identification and Type Classification (File Fact)—May, p 163
Ultra High Strength Steels, Present and Future—Mar, p 94

TESTING, INSPECTION
Magnesium Alloy Castings, New Nondestructive Test for—Jan, p 98
Statistical Quality Control, How to Use for Materials Selection—Apr, p 120

TITANIUM
Chromium Plate for Aluminum and Titanium, New—May, p 120
Heat Treat Titanium, How to—June, p 126
Hot-Air Contamination of Commercial Titanium and Titanium Alloys, Nomographs for Calculating (File Fact)—Feb, p 139
Stainless vs Titanium for High Speed Aircraft—Apr, p 124
Where Industry Is Using Titanium—May, p 112

TUBING
Fabricated Metal Parts—Design and Selection Factors (M&M Manual)—Feb, p 121

WELDING, JOINING, ADHESIVES
Epoxy Adhesives, How High Temperatures Affect—Mar, p 120
Fabricated Metal Parts—Design and Selection Factors (M&M Manual)—Feb, p 121
Fastener, An Unusual—May, p 116
Projection Welding Can Lower Costs, How Designing for—Feb, p 112
Size of Wire for Brazing, Nomograph Selects (File Fact)—Jan, p 129
Steel Bolt, 220,000 Psi (Preview)—June, p 165
Wrought Aluminum Alloys (M&M Manual)—Jan, p 109

WIRE
Self-Insulated Aluminum Strip and Wire (Preview)—May, p 167

WOOD (see NONMETALLIC MATERIALS)

Author Index

Beaver, H. O., Rare Earth Stainless Steels—Feb, p 96
Brenner, Walter, Foam Plastics (M&M Manual)—June, p 143
Burgston, C. H., How Designing for Projection Welding Can Lower Costs—Feb, p 112
Byer, Marshall, Chemical Machining of Photosensitive Glass—June, p 134
Campbell, John B., An Unusual Fastener—May, p 116
Asbestos-Reinforced Low Pressure Laminates—Feb, p 103
Bonded Fabrics—Feb, p 116
What's New in Porcelain Enamel—Jan, p 92
Campbell, O. L., Rubber-Modified Alkyd Sealers for Castings—Apr, p 130
Caterson, A. G. (see Fraser, G. T.)
Cheney, A. J., Teflon and Nylon Bearing Materials—Mar, p 100
Clauser, H. R., Pressure Sensitive Tapes (M&M Manual)—Mar, p 123
Entenmann, J. R., (see Fulton, D. B.)
Evans, R. M., Boride Parts Resist Molten Zinc—June, p 132
Everhart, John L., Large Metal Powder Parts—Apr, p 112
Fabian, Robert J., New Titanate Coatings—June, p 120
Ferriss, Donald P. (see Hausner, H. H.)
Finlay, Walter L., How to Heat Treat Titanium—June, p 126
Where Industry Is Using Titanium—May, p 112
Fraser, G. T., Where Industry Is Using Titanium—May, p 112
Fulton, D. B., Redesigning for Malleable Iron Castings—June, p 140
Hall, A. M. (see Roach, D. B.)
Happoldt, W. B. (see Cheney, A. J.)
Hausner, H. H., Metal Powder Slip Castings—May, p 132
Jaffee, R. I. (see Reynolds, J. E.)
Kastelowitz, A. (see Kramer, C. R.)
Kaufmann, D. W. (see Wentz, W. W.)
Kirby, T. J. (see Fulton, D. B.)
Kramer, C. R., Forgings in Aircraft Save Weight, Improve Design—Mar, p 106
Lanphier, B. T. (see Beaver, H. O.)
Levy, Alan V., Thorium-Magnesium Sheet—Mar, p 114
Lewis, Floyd A., Aluminum Alloy Screw Machine Parts—May, p 122
Loch, L. D., How Graphite Performs at High Temperatures—May, p 126
Loucks, H. L., Casting Resins Insulate and Protect Electronic Components—Feb, p 90
Lyle, John P., Jr., Aluminum Powder Metallurgy Products—Apr, p 106
McDonald, J. K., Modified Woods—Old and New—Mar, p 110
McGuiness, E. W., How High Temperatures Affect Epoxy Adhesives—Mar, p 120
Miller, O. O. (see Sands, J. W.)
Multer, R. K., Developing Design Data for Plastics—Apr, p 132
Ogden, H. R. (see Reynolds, J. E.)
Peckner, D., How to Use Statistical Quality Control for Materials Selection—Apr, p 120
Polis, S., Floor Covering Materials for Heavy Service—Jan, p 85
Rayfield, R. H. (see Multer, R. K.)
Reid, H. F., Jr., Aluminum Chain—June, p 124
Reynolds, J. E., Nomographs for Calculating Hot-Air Contamination of Titanium (File Fact)—Feb, p 139
Riley, Malcolm W., Progress in Plastics—June, p 112
Wrought Aluminum Alloys (M&M Manual)—Jan, p 109
Roach, D. B., The New Stainless Steels (M&M Manual)—Apr, p 137
Rose, Kenneth, Leaded Forging Steels—Jan, p 104
New Aluminized Coating—Mar, p 104
Sands, J. W., Ultra High Strength Steels, Present and Future—Mar, p 94
Sims, Chester T., Present and Future Uses of Scarce Metals—Jan, p 80
Sloan, R. G., Stainless vs Titanium for High Speed Aircraft—Apr, p 124
Storm, G. D., Continuous Cast Bronze Shapes—Feb, p 108
Strauss, Eric L., A Universal Glass Finish for Reinforced Plastics—Jan, p 106
Swayne, K. G. (see Cheney, A. J.)
Taylor, K. M., Boron Nitride—Jan, p 88
Teter, M. A., Flame-Plated Coatings Where Service Is Severe—Feb, p 100
Topelian, Paul J., New Chromium Plate for Aluminum and Titanium—May, p 120
VanDuzee, G. R., New Nondestructive Test for Magnesium Alloy Castings—Jan, p 98
Vogel, Edward, Ceramic Mold Steel Castings—Jan, p 100
Wentz, W. W., How to Heat Treat Titanium—June, p 126